United States™ **Census** Bureau

Introduction to Applied Data Analysis
U.S. Census Bureau, Washington, D.C.

This workshop will present the main components of data analysis from a practical perspective. It will feature hands-on work applied to real-world data using modern computational tools. Participants will gain a basic understanding of the processes behind data analysis including data wrangling, exploratory analysis, descriptive statistics, predictive analysis, and reporting and visualization. They will learn to use modern statistical software to assist in these processes as well as how to think about and identify issues related to data analysis. Hands-on exercises will provide participants the opportunity to apply the analytic techniques and computational methods covered during the workshop and to become familiar with the statistical software environment. Participants who have their own data sets will have the opportunity to apply the techniques learned in the course and to receive feedback on their results.

Course Contents
- Exploratory data analysis, descriptive statistics, and predictive data analysis with an emphasis on developing an understanding of the data set
- Data wrangling, including importing, conversions, transformations, and quality control
- Methods of reporting and visualization with an emphasis on best practices for accurately communicating results
- Statistical software use to assist in analysis of real world data, including population and economic data, and/or participant-provided data

Audience and Prerequisites

This introductory workshop is designed to meet the needs of participants involved in national programs that regularly consume and report on data gathered from a variety of sources. No previous experience applying data analytics or using statistical software packages is required. Good computer skills are preferred.

Date: June 12 - 16, 2017
Place: U.S. Census Bureau Headquarters
              Suitland, Maryland (near Washington, D.C.)
Tuition: US $2,500

Apply early. The workshop will be limited to 15 participants. Those who complete the application requirements will be accepted on a first-come, first-served basis. For more information e-mail pop.international.workshops@census.gov.